AKAI SERVICE MANUAL



FM AM STEREO SYNTHESIZER TUNER

MODEL AT-S7/L

ABBREVIATIONS FOR SERVICE MANUAL MODEL AT-S7/L

ABBREVIATION	EXPLANTION
FM	Frequency Modulation
ST.	STereo
IF	Intermediate Frequency
AM	Amplitude Modulation
Mod.	Modulation
S.S.G	Standard Signal Generator
AC	Alternating Current
MW	Medium Wave
LW	Long Wave
SENS.	SENSitivity
OSC	OSCillator
IND	INDicator
FREQ.	FREQuency
"L".	Low
"H"	High
L	Left
R	Right
СН	CHannel
CAL	CALibration
FLD	FLuorescent Display
PLL .	Phase Locked Loop
vco	Voltage Controlled Oscillator
AGC	Automatic Gain Control
RF	Radio Frequency
LIM	LIMiter



FM AM STEREO SYNTHESIZER TUNER

$_{\text{model}}\,AT\text{-}S7/L$

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SAFETY INSTRUCTIONS

SAFETY CHECK AFTER SERVICING

Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 Mohms, but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for \boxed{C} or \boxed{A} , specified insulation resistance should be more than 2.2 Mohms (ground terminals, microphone jacks, headphone jacks, line-in-out jacks etc.)

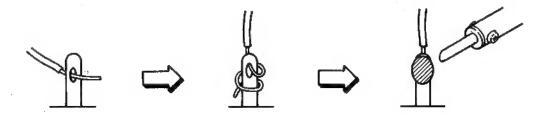
PRECAUTIONS DURING SERVICING

- Parts identified by the symbol parts are critical for safety.
 Replace only with parts number specified.
- In addition to safety, other parts and assemblies are specified for conformance with such regulations as those
 applying to spurious radiation. These must also be replaced only with specified replacements.

 Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise

blocking filters, etc.

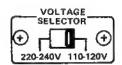
- 3. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- 4. Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers (Insulating Barriers)
 - 4) Insulation sheets for transistors
 - 5) Plastic screws for fixing microswitch (especially in turntable)
- 5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



- 6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
- 7. Check that replaced wires do not contact sharp edged or pointed parts.
- 8. Also check areas surrounding repaired locations.
- 9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.
- 10. Voltage conversion

Models for Canada, USA, UK and Australia are not equipped with this facility. Each machine is preset at the factory according to destination. However, if voltage conversion is necessary, it is accomplished as follows:

- 1) Disconnect the power cord.
- 2) Set the voltage selector located on the rear panel to the proper position with a screwdriver.



SECTION 1

SERVICE MANUAL

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For basic adjustments, measuring methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

I. SPECIFICATIONS

FM TUNER SECTION

TUNING FREQUENCY RANGE	87.4 MHz to 108.1 MHz
USABLE SENSITIVITY (IHF)	11.2 dBf
QUIETING SENSITIVITY (S/N = 50 dB) MONO/ST.	16.2/37.2 dBf
CAPTURE RATIO	1.0 dB
SELECTIVITY (400 kHz)	80 dB
IMAGE REJECTION	80 dB
IF REJECTION	110 dB
SPURIOUS REJECTION	100 dB
AM SUPPRESSION	70 dB
SUB CARRIER SUPPRESSION	70 dB
S/N (MONO/ST)	80/75 dB
T.H.D (MONO/ST)	0.03/0.05%
STEREO SEPARATION	53 dB (1 kHz)
FREQUENCY RESPONSE	30 Hz to 15 kHz ± 0.5 dB

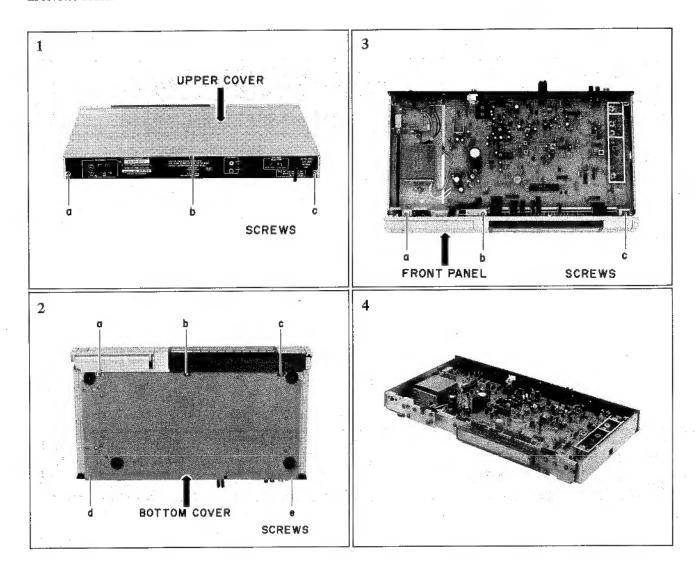
AM TUNER SECTION

	AM, MW (AT-S7L)	LW (AT-S7L)	
TUNING FREQUENCY RANGE	530 to 1,610 kHz 153 to 360 kHz (USA & Canada) 522 to 1,611 kHz (Others)		
USABLE SENSITIVITY (LOOP)	300 μV/m	800 μV/m	
SELECTIVITY	25 dB	30 dB	
IMAGE REJECTION	40 dB	45 dB	
IF REJECTION	55 dB	55 dB	
S/N	40 dB	35 dB	
T.H.D.	1%	2%	
OUTPUT LEVEL FM (100% MOD.) AM (30% MOD.)	700 mV 250 mV		
OUTPUT IMPEDANCE	3.3 kohms		
POWER REQUIREMENTS	120V, 60 Hz for USA & Canad 220V, 50 Hz for European cou 240V, 50 Hz for UK & Austral 110-120V/220-240V, 50/60	intries	
POWER CONSUMPTIONS	U Model: 15W C, A Model: 13W		
DIMENSIONS	440(W) × 53(H) × 274(D) mm (17.3 × 2.1 × 10.8 inches)		
WEIGHT	2.92 kg (6.4 lbs)		

^{*} For improvement purposes, specifications and design are subject to change without notice.

II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.



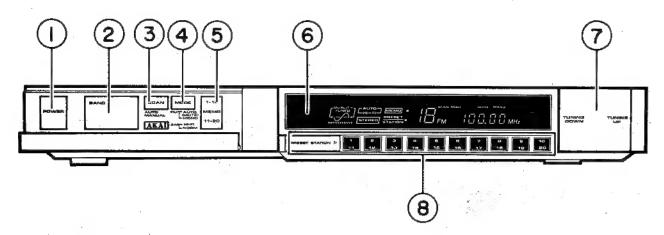


Fig. 3-1

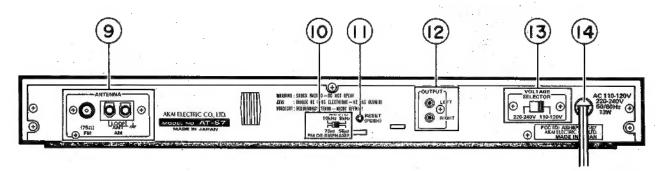


Fig. 3-2

- 1. POWER SWITCH
- 2. BAND SELECTOR
- 3. SCAN MODE SELECTOR
- 4. FM MODE SELECTOR BUTTON
- 5. MEMORY BUTTON
- 6. FL DISPLAY
- 7. TUNING BUTTON
- 8. PRESET STATION BUTTONS

- 9. ANTENNA TERMINALS
- 10. AM STEP/FM DE-EMPHASIS SELECTOR SWITCH (U model only)
- 11. RESET BUTTON
- 12. OUTPUT TERMINALS
- 13. VOLTAGE SELECTOR SWITCH (U model only)
- 14. POWER CORD

IV. PRINCIPAL PARTS LOCATION

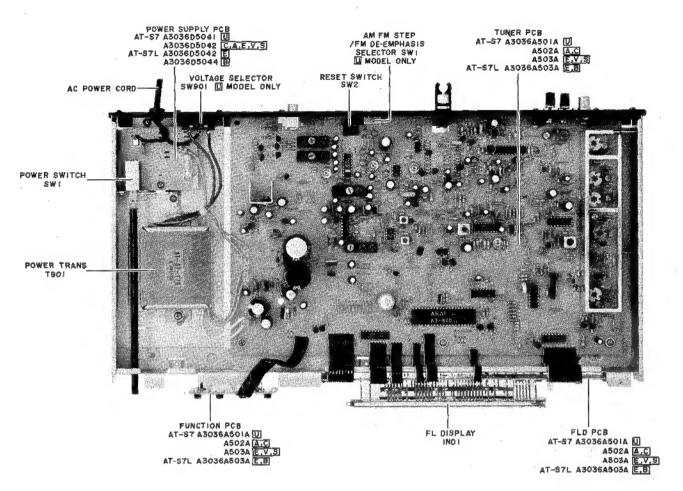


Fig. 4-1 · Top View

V. TUNER ADJUSTMENT

5-1 THE INSTRUMENT CONNECTIONS

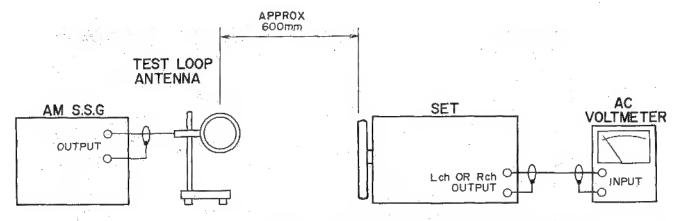


Fig. 5-1 Instrument Connections for AM (MW, LW) Section Adjustment

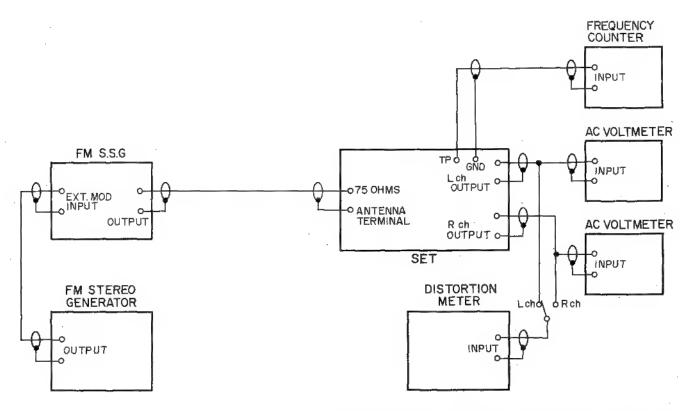


Fig. 5-2 Instrument Connections for FM Section Adjustment

5-2 AT-S7/L TUNER P.C BOARD ADJUSTMENT POINTS

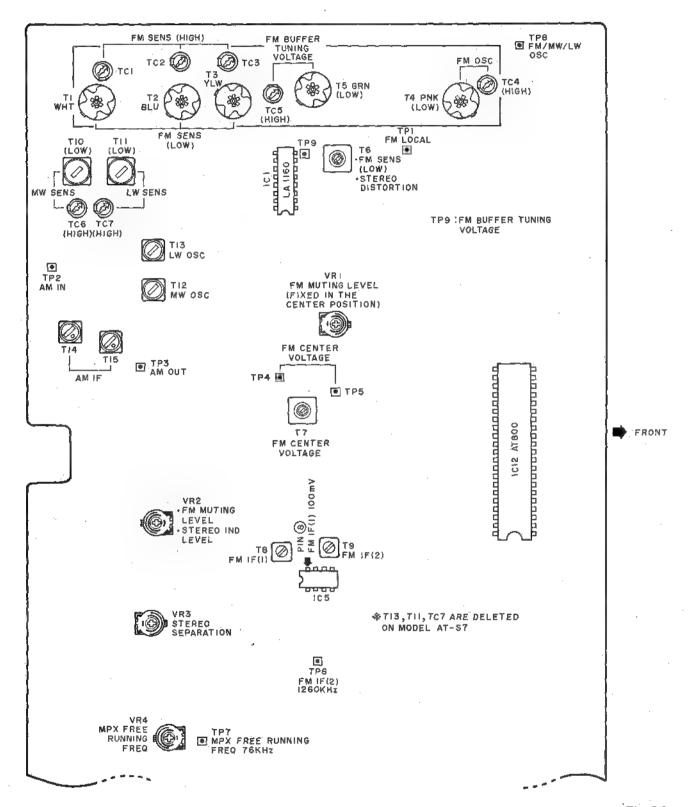


Fig. 5-3

5-3 AT-S7/L AM (MW, LW) SECTION ADJUSTMENT (Refer to Figs. 5-1 & 5-3)

Step	Adjustment Item	Adjustment Point	Result	Remarks
1	LW OSC	T13	1.0V at 137 kHz	Band SW to LW Display to 137 kHz. Voltmeter to TP8.
2	MW OSC	Tl2	2.0V at 530 kHz (522 kHz)	Band SW to MW. Display to 530 kHz (522 kHz). Voltmeter to TP8.
3	FM OSC (Low)	Т4	3.0V at 88 MHz	Band SW to FM. Display to 88 MHz. Voltmeter to TP8.
4	FM OSC (High)	TC4	20.0V at 108 MHz	Display to 108 MHz.
5	:		Repeat Steps 3 & 4	8 Th
6	FM OSC Buffer Tuning Voltage (Low)	Т5	Maximum level at 88 MHz	88 MHz, 60 dB, Mono input. Display to 88 MHz. Oscilloscope to TP10.
7	FM OSC Buffer Tuning Voltage (High)	TC5	Maximum level at 108 MHz	108 MHz, 60 dB, Mono input. Display to 108 MHz.
8	Repeat Steps 6 & 7			
9	AM IF	T14, 15	Maximum output Minimum Distortion	Band SW to MW. 1,000 kHz (999 kHz), 90 dB input. Display to 1,000 kHz (999 kHz).
10	LW Low Range Sensitivity	T11	Less than 70 dB	Band SW to LW. 160 kHz input. Less than 10% Distortion Factor. Display to 160 kHz.
11	LW High Range Sensitivity	TC7	Less than 70 dB	300 kHz input. Display to 160 kHz.
12			Repeat steps 10 & 11	
13	Distortion (Confirmation)	None	Less than 5%	200 kHz, 74 dB input. Display to 200 kHz.
14	MW Low Range Sensitivity	T10	Less than 62 dB	Band SW to MW. 600 kHz (603 kHz) input. Display to 600 kHz (603 kHz). Less than 10% Distortion Factor.
15	MW High Range Sensitivity	TC6	Less than 62 dB	1,400 kHz (1,404 kHz) input. Display to 1,400 kHz (1,404 kHz).
16			Repeat steps 14 & 15	
17	Distortion (Confirmation)	None	Less than 2%	1,000 kHz, 74 dB input. Display to 1,000 kHz.
18	Auto Stop (Confirmation)	None	Stop scanning at 1,000 kHz tuned	Scan Mode to AUTO. 1,000 kHz, 74 dB input.

- NOTES: 1. Set the internal modulation signal generator to 30%, 400 Hz of each.
 - 2. Use a digital voltmeter for the adjustments in Steps 1 to 5.
 - 3. Use an Oscilloscope for the adjustments in Steps 6 & 7.
 - kHz) in Result & Remarks indicates the test frequencies in AM 9 kHz STEP area.

VI. CLASSIFICATION OF VARIOUS P.C BOARDS

6-1 P.C BOARD TITLES AND IDENTIFICATION NUMBERS

MODEL AT-S7

P.C Board Title		P.C Board Number	Remarks
TUNER	P.C BOARD	A3036A501A	U
TUNER	P.C BOARD	A3036A502A	C, A
TUNER	P.C BOARD	A3036A503A	E, V, S
FUNCTION	P.C BOARD	A3036A501B	Ū
FUNCTION	P.C BOARD	A3036A502B	C, A
FUNCTION	P.C BOARD	A3036A503B	E, V, S
FLD	P.C BOARD	A3036A501C	U
FLD	P.C BOARD	A3036A502C	C, A
FLD	P.C BOARD	A3036A503C	E, V, S
POWER SUPPLY	P.C BOARD	A3036D5041	U
POWER SUPPLY	P.C BOARD	A3036D5042	C, A, E, V, S

MODEL AT-S7L

P.C	Board Title	P.C Board Number	Remarks	
TUNER	P.C BOARD	A3036A503A	E, B	
FUNCTION	P.C BOARD	A3036A503B	E, B	
FLD	P.C BOARD	A3036A503C	E, B	
POWER SUPP	LY P.C BOARD	A3036D5042	E	
POWER SUPP	LY P.C BOARD	A3036D5044	. 1	

5-4 AT-S7/L FM SECTION ADJUSTMENT (Refer to Figs. 5-2 & 5-3)

Step	Adjustment Item	Adjustment Point	Result	Remarks
1	Low Range Sensitivity	T1,2,3,6	Less than 6 dB	Band SW to FM. 88 MHz, Mono input. Display to 88 MHz. 3% Distortion Factor.
2	High Range Sensitivity	TC1, 2, 3	Less than 6 dB	108 MHz. Display to 108 MHz.
3			Repeat Step 1 & 2.	
.4	FM Center voltage	Т7	OV indication	Voltmeter between TP4 and TP5. Tune only noise without interference from broadcasting.
. 5	FM IF (1)	Т8	Maximum level	98 MHz, 60 dB, Mono input. Oscilloscope to IC5 pin (8)
6	FM IF (2)	T 9	1,260 kHz	Frequency Counter to TP6.
7	Distortion (Mono) (Confirmation)	• • •	Less than 0.1%	98 MHz, 60 dB, Mono input. Display to 98 MHz.
8	FM Muting level	VR2	30 ± 6 dB	98 MHz, Stereo input. Display to 98 MHz.
9	MPX Free Running Frequency	VR4	76 kHz ± 50 Hz	Frequency Counter to TP7
10	Stereo Separation	VR3	More than 45 dB	98 MHz, 60 dB, Stereo L-CH (R-CH) input. Display to 98 MHz. Minimum output of R-CH (L-CH).
11	Distortion (Stereo)	Т6	Less than 0.2%	98 MHz, 60 dB, Stereo input. Display to 98 MHz.

NOTES: 1. Set the internal modulation signal generator to 100% (75 kHz dev.), 1 kHz of each.

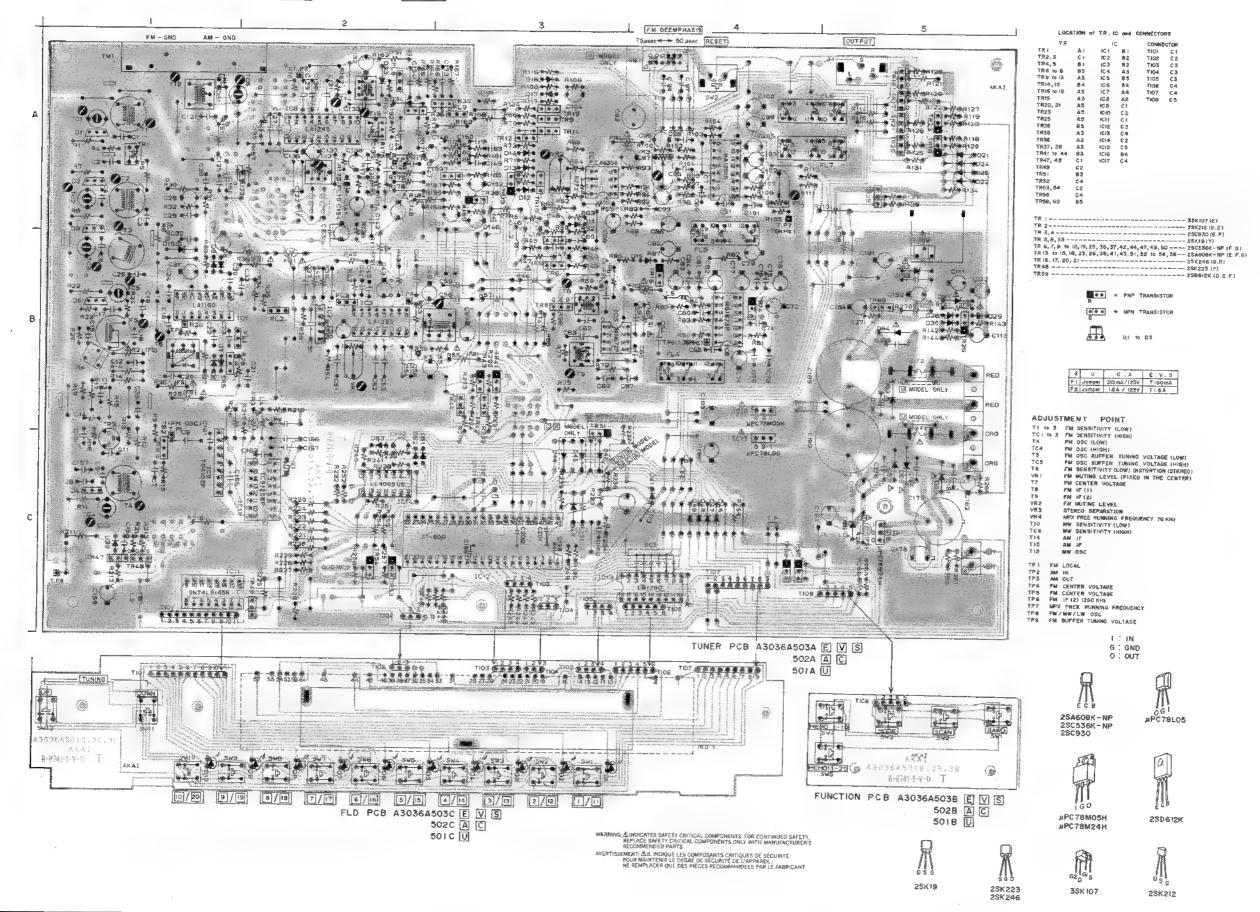
^{2.} Use a digital voltmeter for the adjustment in step 4.

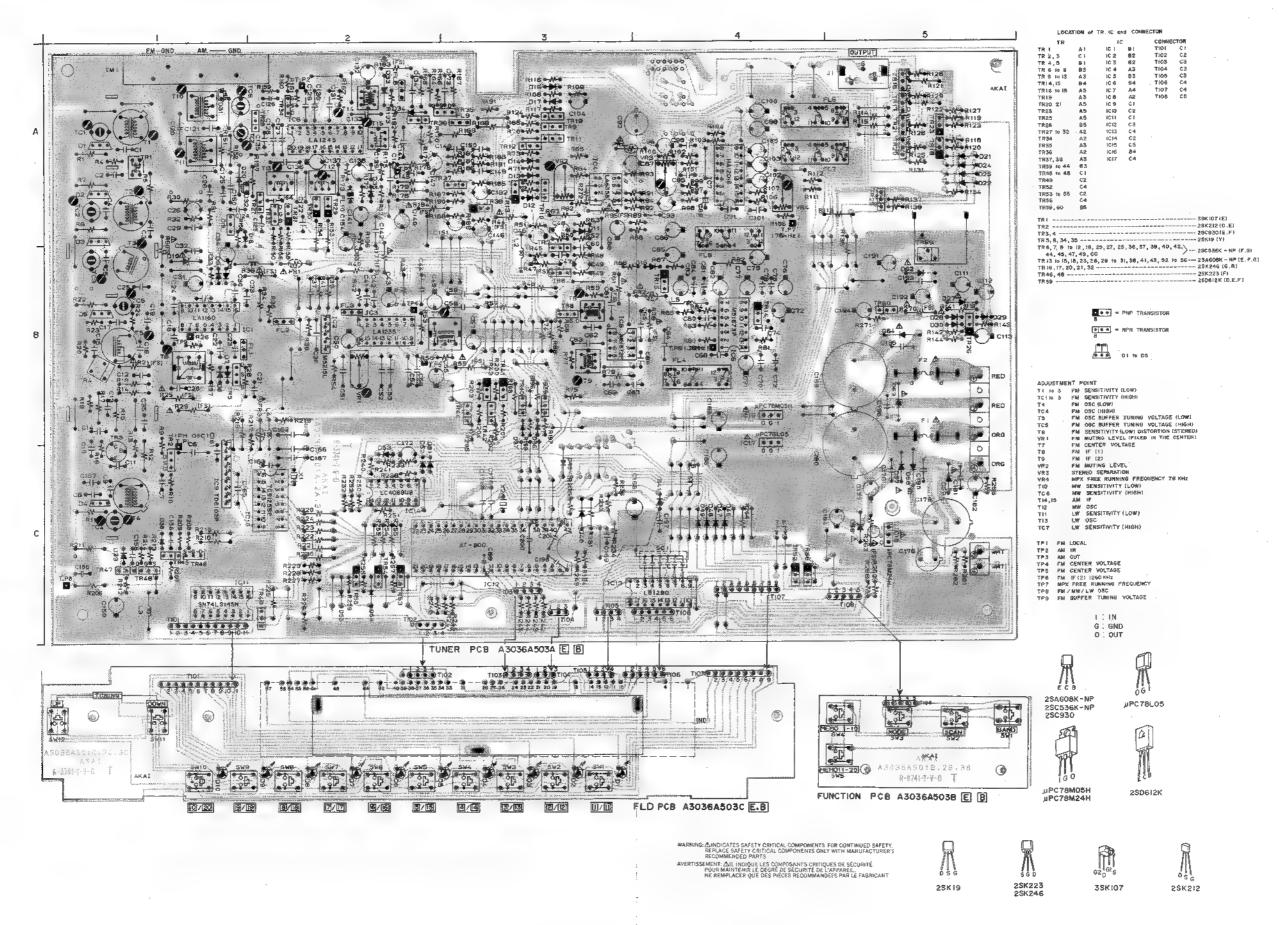
^{3.} Use an Oscilloscope for the adjustment in Step 5.

^{4.} Refer to the AM SECTION ADJUSTMENT Steps 3 to 8 when only the adjustment in FM section is necessary.

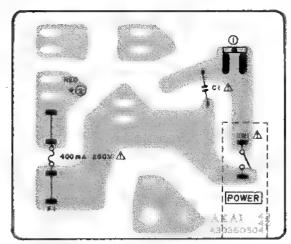
6-2 COMPOSITION OF VARIOUS P.C BOARDS

1) AT-S7 TUNER P.C BOARD A3036A501A U A3036A502A A, C, A3036A503A E, V, S, FUNCTION P.C BOARD A3036A501B U, A3036A502B A, C, A3036A503B E, V, S, FLD P.C BOARD A3036A501C U, A3036A502C A, C, A3036A503C E, V, B

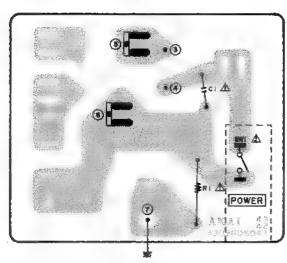




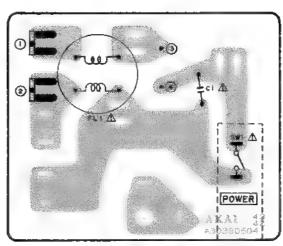
3) POWER SUPPLY P.C BOARD A3036D5041 U, A3036D5042 C, A, A3036D5042 V, A3036D5042 E, S, A3036D5044 B



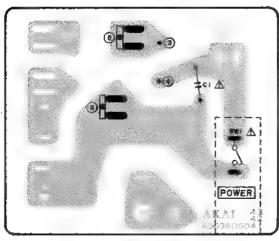
POWER SUPPLY PCB A3036D5041 U



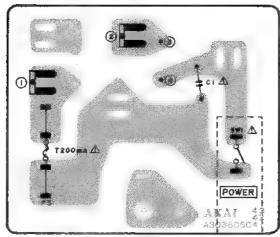
POWER SUPPLY PCB A3036D5042 C.A



POWER SUPPLY PCB A3036D5042 V



POWER SUPPLY PCB A3036D5042 E.S



POWER SUPPLY PCB A3036D5044 B

WARNING: AINDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ÁIL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

SECTION :

PARTS LIST

TABLE OF CONTENTS

aı	the composition of the course	· · · · · · · · · · · · · · · ·
1	POR PERMARE BEINS	
:	Deres de la lace de des de la central de la	
١	ASSEMBLE BURBS	2
4	645 41 45515TEL 9 (D 40 K	2
ON	10.4	27

ATTIENTION

- When placing an order for parts, be sure to list the parts no model no, and description. There are instances in which it any of this information is omitted, parts cannot be shipped or the wrong parts will be delivered.
- 2. Please be careful not to make a mistake in the parts no. If the parts no. is in error, a part different from the one ordered may be delivered.
- Because parts number and parts unit supply in the Preliminary Parts List may be partially changed, please use this parts list for all buture reference.

HOW TO USE THIS PARTS LIST

- 1. This Parts List shows the parts that are considered necessary for repairs. Other parts, such as resistors and capacitors, are shown in the "Common List for Service Parts". Select and order such parts from the "Common List for Service Parts".
- 2. The Recommended Spare Parts shows those parts in the Parts List which are considered particularly important for service.
- 3. Parts not shown in the Parts List and "Common List for Service Parts" will not be supplied in principle.
- 4. How to read list
 - a) Mechanism Block

b) P.C Board Block

2. HEAD BASE BLOCK

6. SYS. CON. P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION	REF. NO.	PARTS NO.	DESCRIPTION	
2-1x	BH-T2023A320A	HEAD BASE BLOCK GX-F66R	6-1	BA-T2034A070	PC SYS CON BLK GX-F44R	
2-2	HP-H2206A010A	HEAD R/P PR4-8FU C	6-IC1	EI-324536	IC HD14049BP	
2-3	ZS-477876	PAN20×03STL CMT	6-IC2	EI-336801	IC MB8841-564M	
2-4	ZS-536488	BID20×08STL CMT	6-IC3	EI-331661	IC \$N7405N	
2-5	ZG-402895	CS ANGLE ADJUST SPRING	6-IC4	EI-336725	IC M54527P	
11	17	•	6-TR1to4	ET-200985	TR 2SC2603 F,G	
	\ SP (Set	rvice Parts) Classification	6-TR5to28	ET-554657	TR 2SA733A P,Q	
1 \	1		6-D1	ED-318292	D SILICON II 1S2473T-77 T26	
1 \		l "x" indicates the inability to	6-D2to4	ED-308952	D GERMA V 1K34A-LR F07	
1 \	show t	hat particular part in the Photo or	6-D5to10	ED-318292	D SILICON II 1S2473T-77 T26	
\	Illustra	tion,	6-X1	EI-318384	OSC X'TAL NC-18C	
'	This m	imber corresponds with the	<u> </u>	Ŧ	3.579545MHZ	
	individ	individual parts index number in that figure		SP (Service Parts) Classificatio This reference numbers corres		
	ngure					
	——— This nu Numbe	ımber corresponds with the Figure —			bol numbers of Schematic	
	TAUTITO	, t		Diagrailia).	

5. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List. It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index.

WARNING

A INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY REPEACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT

A IL INDIQUE LES COMPOSANTS CRITIQUES DE SURETE POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST GRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT.

RECOMMENDED SPARE PARTS

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

NO. PARTS NO. DESCRIPTION	
1 200 010000 1 00 100	
1 BT-347008	0 (C,A)
	0 (E,V)
THE THE PARTY OF T	0 (S,B)
- TOTAL MINISTER ALSO	0 (U)
	(T)
7 EC-346822 COMP C B72C0716-32N 8 EC-347112 FILTER CE AHCFM2-460BL	
	DMITT (C)
9 ED-336805 △ ■ SILICON DS135D-KB1	BMHZ (C)
10 ED-346503 ▲ D ZENER H HZ20FA F10	200/1.UA
11 ED-323216 Δ D ZENER H 05Z15 Z	2
12 ED-337391 ■ LED GL5NG6 GRN	
13 ED-301911 USILICON H DS448	
14 ED-200469 D SILICON II DS448 FA5 F10)
15 ED-344280 D SILICON H GMA-01-FY2 Fr	05
16 ED-337575 D SILICON II GMA-01-4-BT T	26
17 ED-348205 D SILICON V MC931 DOUBLE	E
18 ED-336832 ■ VARACTOR SVC211SP	
19 ED-337605 D VARACTOR SVC333 (A) D	OUBLE
20 ED-330218 D ZENER H HZ15L 2	
21 ED-328700 II ZENER H HZ9 A2	
22 EF-336834 ▲ FUSE FST3100 T 250V 0.1	
(F1) 23 EF-300596 A FUSE FST3100 T 250V 0 2	(E,V,B,S)
== 1 00D 101B100 1 250 V 0.2	
24 EF-301485 A FUSE FST3100 T 250V 1.6	F3) (L-B)
== 101.00 I 250V 1.0	
25 EF-309389 A FUSE TSC A 250V 0.40A ((E,V,B,S)
26 EF-306088 A FUSE TSC 125V 0.31A (F1	11 (U)
27 EF-308847 A FUSE TSC 125V 1.60A (F2) (C,A)
28 EH-347111 FILTER CE AHCFM2-459BL) (C,A)
0.459MHZ (EX	CEPT C)
29 EH-347109 FILTER CE AHCFM2-459EL	
0.459MHZ (EX	CEPT C)
30 EH-347110 FILTER CE AHCFM2-460EL	
0.460	MHZ (C)
31 EH-347106 FILTER CE SFE10.7MXKA	
10.700MHZ (EX 32 EH-347889 FILTER IC LP BL-340P	CEPT L)
TIPLE BC BI BD-34QK	
33 EI-310031 Δ IC μPC78L05 34 EI-328798 Δ IC μPC78M05H	
35 EI-338675 Δ IC μPC78M24H	
36 EI-346964 IC AT-801	
37 EI-347119 IC HA12016	
38 EI-347114 IC LA1160	
39 EI-337417 IC LA1235	
40 EI-202218 IC LA1245	
41 EI-347116 IC LA6358	
42 E1-337013 IC LB1290	
43 EI-338171 IC LC4069UB	
44 EI-347117 IC M51672P	
45 EI-347118 IC M51673P	
46 EI-347115 IC M5215L	
47 EI-347120 IC SN74LS145N 48 EI-336717 IC TC9125 RP	
- 1112 112 15 3,000,000	MHZ
51 EM-347125 IND FL FIP8AM11 CHARACTE 52 EO-330256 OSC CE F85-006 4MHZ	R
53 ER-319455 Δ R FUSE ERD2FC S10 1/4W	10000
54 ER-318248 A R FUSE ERD2FC S10 1/4W	10KUG 47RAG
55 ER-337327 FILTER CE BFU459C4N 0.459N	HIZ
	CEPT C)
56 ER-337328 FILTER CE BFU460C4N 0.46M	HZ (C)
57 ER-337989 FILTER CE SEE 10.7MPK 4.0.0	MILE
TOUR OF BIOLOGIANT IN TOU	MHZ
TOUR OF BIOLOGIANT IN TOU	MHZ 7MHZ
58 ER-345729 FILTER CE SFE10.7MZ1KA 10.0	7MHZ (L)
TOUR OF BIOLOGIANT IN TOU	7MHZ

NO.	PARTS NO.	DESCRIPTION
61	ES-337902	A SW PUSH SDLD1P 01-1 (V)
62	ES-348463	△ SW SLIDE 00120297 01-2
63	ES-347122	(U) (SW901) SW SLIDE 00420569 2-04-25 (U)
64	ES-344445	SW TACT EVQ-QHR12B
65	ES-336780	SW TACT KHH10902
66	ET-307193	Δ TR 2SD612K D.E.F
67	ET-323232	TR FET 2SK19 Y
68	ET-337744	TR FET 2SK212 D.E
69	ET-336864	TR FET 2SD223 F
70	ET-337759	
71	ET-337743	TR FET 3SK107 E
72	ET-322778	TR 2SA608K-NP E.F.G
73	ET-316643	TR 2SC536K-NP F,G
74	ET-618873	TR 2SC930 E.F
75	EV-337995	R S-FIX ■ RVF8P01 3P 103
76	EV-337861	R S-FIX H RVF8P01 3P 302
77	EV-345785	R S-FIX H RVF8P01 3P 504

No. Description Descript	1. TUNER I	P.C BOAR	D BLOCK	REF.	PARTS NO.	DESCRIPTION
1-191		PARTS NO.	DESCRIPTION	1-D39A		
1-10		00510001	DO WILLOW DIE & TOTAL			
1-11						
TUMER PLC BOARD						
1.0C1A						
1-10-12	2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VD 0410 = 012	1	1-D54A,55A	ED-200469	D SILICON H DS448 FA5 F10(L)
1-C12	7	TUNER P.C BO	OARD	1-D56A		
1-10-24						
1-10-6A			I	1-D58A	ED-336805	
1-10-6A			i	1 DC0 4	ED 201011	•
1-10-6A						
1-107A						
1-10-24				1-202/1,04/1	110-00000	· · ·
1.1C10A				1-J1A	EJ-337424	•
I-CICIA						
1-1011-14 E1-349712 C SNY-18.1145N 1-101-14 EV-347951				1-SW2A		
I-C13A				1-VR1A,2A 🖟	EV-337995	R S-FIX H RVF8P01 3P 103
1-11-4	1-IC12A H	EI-346964	IC AT-801	1-VR3A	EV-345785	■ S-FIX H RVF8P01 3P 504
1-12-14	1-IC13A E	EI-337013	IC LB1290			R S-FIX H RVF8P01 3P 302
1-13-0	1-IC14A E					
1-1217						-
1-15.14						
1-17-2A						
1-T1A						
1-TRA						
1-TRA	*				20 341070	
1.TR8.A				1-T2A	EO-347099	
1-TR9A	,					
I-TRIAMORE ET-32178				1-T3A	EO-347100	COIL VARI 2 E515HN-110321
1-TR13A_015A_ET-322778						RRR4
TR18A					-	
1-TR19A	1-TR16A,17A H	ET-337759	TR FET 2SK246 GR	1-T5A	EO-347102	-
1-TR20A,21A ET-337759	1-TR18A I	ET-322778	TR 2SA608K-NP E,F,G			
1-TR23A ET-322778 TR 2SA608K-NP E,F,G 1-TRA EO-347103 COIL DET 278-1078-01				1-T6A	EO-348212	
1-TR25A			· ·	1 TT A	PO 245102	
1-TR26A						
1-TR27A,28A ET-316643 TR 2SC536K-NP F,G (L) 1-TR29At63IA ET-322778 TR 2SA668K-NP E,F,G (L) 1-TR34A,35A ET-332759 TR FET 2SK246 GR (L) 1-TR38A,35A ET-332732 TR FET 2SK246 GR (L) 1-TR38A ET-322778 TR 2SA668K-NP F,G (L) 1-TR39A,40A ET-316643 TR 2SC536K-NP F,G (L) 1-TR39A,40A ET-316643 TR 2SC356K-NP F,G (L) 1-TR41A ET-322778 TR 2SA668K-NP E,F,G (L) 1-TR42A ET-316643 TR 2SC356K-NP F,G (L) 1-TR43A ET-322778 TR 2SA668K-NP E,F,G (L) 1-TR43A ET-322778 TR 2SA668K-NP E,F,G (L) 1-TR43A ET-322778 TR 2SA668K-NP F,G (L) 1-TR43A ET-316643 TR 2SC536K-NP F,G (L) 1-TR44A ET-3322778 TR 2SA668K-NP E,F,G (L) 1-TR46A ET-336644 TR FET 2SK223 F (L) 1-TR46A ET-336645 TR FET 2SK223 F (L) 1-TR46A ET-336645 TR 2SC536K-NP F,G (L) 1-TR49A ET-316643 TR 2SC536K-NP F,G (L) 1-TR40A ER-345729 FILTER CE SFE10.7MYKA 1-TR40A ER-345729 FILTER CE AHCFM2-460EL 0-7MHZ (L) 1-TL50A ER-347110 FILTER CE AHCFM2-460EL 0-459MHZ (EXCEPT C) 1-FL9AC ER-347110 FILTER CE AHCFM2-460EL 0-459MHZ (EXCEPT C) 1-FL9AC ER-347110 FILTER CE AHC						
1-TR29At031A ET-322778						
1-TR33A ET-337759 TR FET 25K246 GR (L) 1-TR34A,35A ET-323232 TR FET 25K19 Y (L) 1-TR34A,35A ET-323232 TR FET 25K19 Y (L) 1-TR34A,35A ET-322778 TR 25C356K-NF F,G 1-TR39A,40A ET-316643 TR 25C356K-NP F,G 1-TR42A ET-316643 TR 25C356K-NP F,G 1-TR42A ET-316643 TR 25C356K-NP F,G 1-TR42A ET-316643 TR 25C356K-NP F,G 1-TR44A,45A ET-312778 TR 25A608K-NP E,F,G 1-TR44A,45A ET-316643 TR 25C356K-NP F,G 1-TR44A,5A ET-316643 TR 25C356K-NP F,G 1-TR44A,5A ET-316643 TR 25C356K-NP F,G 1-TR46A ET-336864 TR FET 25K223 F 1-TR46A ET-336864 TR FET 25K223 F 1-TR46A ET-316643 TR 25C356K-NP F,G 1-TR49A ET-316643 TR 25C356K-NP F,G 1-TL4A EN-347106 FILTER CE SFE10.7MXKA 10.700MHZ (EXCEPT L) 1-TL4A EN-347106 FILTER CE SFE10.7MXKA 10.700MHZ (EXCEPT L) 1-TL4A EN-347107 FILTER CE ACCMZ 10.700MHZ (EXCEPT L) 1-TL4A EN-347107 FILTER CE ACCMZ 10.700MHZ (EXCEPT						
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1-TR36A,37A ET-316643				1-T13A	EO-307786	COIL OSC 2 7NR-6722Y
1-TR39A,40A ET-316643 1-TR41A ET-322778 1-TR42A ET-316643 1-TR42A ET-316643 1-TR43A ET-322778 1-TR43A ET-322778 1-TR43A ET-322778 1-TR43A ET-322778 1-TR44A,45A ET-316643 1-TR44A,45A ET-316643 1-TR44A,45A ET-316643 1-TR47A ET-316643 1-TR47A ET-316643 1-TR47A ET-316643 1-TR44A,45A ET-336864 1-TR47A ET-316643 1-TR44A,45A ET-336864 1-TR44A,45A ET-336864 1-TR44A,45A ET-336864 1-TR44A ET-336864 1-TR44A ET-316643 1-TR45A ET-336864 1-TR45A ET-336864 1-TR45A ET-336864 1-TR45A ET-336864 1-TR45A ET-336864 1-TR45A ET-316643 1-TR45A ET-346643 1-TR44A,45A ET-316643 1-TR45A ET-346643 1-TR45A ET-346643 1-TR45A ET-346643 1-TR44A,45A ET-316643 1-TR45A ET-346643 1-TR44A,45A ET-316643 1-TR45A ET-346643 1-TR44A,45A ET-316643 1-TR45A ET-3467249 1-TR44A,45A ET-316643 1-TR44A,45A ET-316643 1-TR45A ET-32679 1-TR44A,45A ET-316643 1-TR44A,45A ET-316643 1-TR45A ET-32679 1-TL43A ER-347129 1-TL4A ER-34729 1-TL4A ER-347120 1-TL4						
1-TR41A ET-322778 TR 2SA608K-NP E,F,G 1-TR42A ET-316643 TR 2SC536K-NP F,G 1-TR43A ET-322778 TR 2SA608K-NP E,F,G 1-TR44A,45A ET-316643 TR 2SC536K-NP F,G 1-TR44A,45A ET-316643 TR 2SC536K-NP F,G 1-TR46A ET-336864 TR FET 2SK223 F 1-TR47A ET-316643 TR 2SC536K-NP F,G 1-TR48A ET-336864 TR FET 2SK223 F 1-TR48A ET-336864 TR FET 2SK223 F 1-TR48A ET-336864 TR FET 2SK223 F 1-TR49A ET-316643 TR 2SC536K-NP F,G 1-TR59A ET-307193	1-TR38A I	ET-322778	TR 2SA608K-NP E,F,G			
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1-TR44A,45A ET-316643 TR 2SC336K-NP F,G 1-TR47A ET-336864 TR FET 2SK223 F 10.7MHZ 1-TR47A ET-316643 TR 2SC536K-NP F,G 1-TR49A ET-336864 TR FET 2SK223 F 10.7MHZ 1-TR49A ET-316643 TR 2SC536K-NP F,G 1-TR49A ET-316643 TR 2SC536K-NP F,G 1-TR51Ato56A ET-322778 TR 2SA608K-NP E,F,G (U) 1-TR59A ET-307193 A TR 2SC536K-NP F,G 1-D1Ato5A ED-336832 DVARACTOR SVC211SP 1-D6A109A ED-337575 DSILICON H GMA-01-4-BT T26 1-D10A ED-328700 D ZENER H HZ9 A2 1-D11Ato17A ED-337575 D SILICON H GMA-01-4-BT T26 1-D19A ED-348205 DSILICON H GMA-01-FY2 F05 1-D20A ED-200469 D SILICON H GMA-01-FY2 F05 1-D24A,25A ED-301911 DSILICON H DS448 FAS F10 1-D27A ED-330218 A ZENER H HZ15L 2 1-D27A ED-330218 A ZENER H HZ15L 2 1-D23A,34A ED-337605 DVARACTOR SVC333 (A) 1-D33A,34A ED-337605 DVARACTOR SVC333 (A) 1-D35A ED-348205 D SILICON H GM4-01-FY2 F05 1-D36Ato38A ED-344280 D SILICON H GM4-01-FY2 F05 1-D36Ato38A ED-348205 D SILICON H GM4-01-FY2 F05 1-D36Ato38A ED-344280 D SILICON H GM4-01-FY2 F05 1-D36Ato38A ED-348205 D SILICON H GM4-01-FY2 F05 1-D36Ato38A ED-348205 D SILICON H GM4-01-FY2 F05				4 77 4 4 4	ED Asses	7
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1-TR47A ET-316643 TR 2SC536K-NP F,G 1-TR48A ET-336644 TR FET 2SK223 F 1-TR49A ET-316643 TR 2SC536K-NP F,G 1-TR49A ET-316643 TR 2SC536K-NP F,G 1-TR51At056A ET-322778 TR 2SA608K-NP E,F,G (U) 1-TR51At056A ET-322778 TR 2SA608K-NP E,F,G (U) 1-TR60A ET-316643 TR 2SC536K-NP F,G 1-D1At05A ED-336832 D VARACTOR SVC211SP 1-D6At09A ED-337575 D SILICON H GMA-01-4-BT T26 1-D10A ED-328700 D ZENER H HZ9 A2 1-D11At017A ED-337575 D SILICON H GMA-01-4-BT T26 1-D19A ED-348205 D SILICON H GMA-01-4-BT T26 1-D20A ED-200469 D SILICON H GMA-01-4-BT T26 1-D20A ED-200469 D SILICON H DS448 FA5 F10 1-D21A,22A ED-301911 D SILICON H DS448 TA5 F10 1-D24A,25A ED-301911 D SILICON H DS448 TA5 F10 1-D24A,25A ED-330218 A ■ ZENER H HZ15L 2 1-D24A,25A ED-330218 A ■ ZENER H HZ15L 2 1-D31A,32A ED-337605 D VARACTOR SVC333 (A) DOUBLE 1-D33A,344 ED-301911 D SILICON ID DS448 1-D35A ED-348205 D SILICON V G931 DOUBLE 1-D36At038A ED-344280 ■ SILICON H GMA-01-FY2 F05 1-TC7A EC-337603 C S-FIX II CTZ51F132 5.5-30 (L)	·		·	1-FI 2 4 3 4	FD_337080	3.4
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1-TR51Ato56A ET-322778 TR 2SA608K-NP E,F,G (U) 1-TR59A ET-307193	· ·		· ·			FILTER LC LP BL-34HD
1-TR59A ET-307193				1-FL6A,7A	EH-347889	FILTER LC LP BL-34QR
1-D1Ato5A ED-336832 D VARACTOR SVC211SP 1-D6Ato9A ED-337575 D SILICON H GMA-01-4-BT T26 1-D10A ED-328700 D ZENER H HZ9 A2 1-D11Ato17A ED-337575 D SILICON H GMA-01-4-BT T26 1-D18A ED-344280 ■ SILICON H GMA-01-4-BT T26 1-D19A ED-348205 ■ SILICON H GMA-01-FY2 F05 1-D20A ED-200469 D SILICON H DS448 FA5 F10 1-D21A,22A ED-301911 D SILICON H DS448 1-D27A ED-330218 Δ ■ ZENER H HZ15L 2 1-D28Ato30A ED-337575 D SILICON H CMA-01-4-BT T26 1-D31A,32A ED-337605 D VARACTOR SVC333 (A) 1-D33A,34A ED-301911 D SILICON II DS448 1-D35A ED-348205 D SILICON V MC931 DOUBLE 1-D36Ato38A ED-344280 ■ SILICON H GMA-01-FY2 F05 1-TC7A EC-337603 C S-FIX II CTZ51F132 5.5-30 (L)			Δ TR 25D612K D,E,F	1-FL8A	EH-347109	FILTER CE AHCFM2-459EL
1-D6Ato9A ED-337575 D SILICON H GMA-01-4-BT T26 1-D10A ED-328700 D ZENER H HZ9 A2 1-D11Ato17A ED-337575 D SILICON H GMA-01-4-BT T26 1-D18A ED-344280 □ SILICON H GMA-01-FY2 F05 1-D19A ED-348205 □ SILICON H D8448 FAS F10 1-D20A ED-200469 D SILICON H D8448 FAS F10 1-D24A,25A ED-301911 D SILICON H D8448 1-D27A ED-330218 Δ □ ZENER H HZ15L 2 1-D28Ato30A ED-337575 D SILICON H CMA-01-4-BT T26 1-D31A,32A ED-337605 D VARACTOR SVC333 (A) DOUBLE 1-D33A,34A ED-301911 D SILICON II D8448 1-D35A ED-348205 D SILICON W MC931 DOUBLE 1-D36Ato38A ED-344280 □ SILICON H GMA-01-FY2 F05 1-TC1Ato6A EC-337603 C S-FIX II CTZ51F132 5.5-30 (L)	1-TR60A I	ET-316643	TR 2SC536K-NP F,G			
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1-D11Ato17A ED-337575 D SILICON H GMA-01-4-BT T26 1-D18A ED-344280			· ·			
1-D18A ED-344280				1-FL9A	EH-347111	
1-D19A ED-348205				1 21040	EC 247110	
1-D20A ED-200469 D SILICON H DS448 FA5 F10 1-D21A,22A ED-301911 D SILICON H DS448 1-D24A,25A ED-301911 D SILICON H DS448 1-D27A ED-330218 A ZENER H HZ15L 2 1-D28Ato30A ED-337575 D SILICON H CMA-01-4-BT T26 1-D31A,32A ED-337605 D VARACTOR SVC333 (A) 1-D33A,34A ED-301911 D SILICON II DS448 1-D35A ED-348205 D SILICON V MC931 DOUBLE 1-D36Ato38A ED-344280 II SILICON H GMA-01-FY2 F05 1-TC7A EC-337603 C S-FIX II CTZ51F132 5.5-30 (L)				I-FLAAC	EC-54/112	
1-D21A,22A ED-301911 D SILICON H DS448 1-D24A,25A ED-301911 D SILICON H DS448 1-D27A ED-330218 A ZENER H HZ15L 2 1-D28Ato30A ED-337575 D SILICON H CMA-01-4-BT T26 1-D31A,32A ED-337605 D VARACTOR SVC333 (A) DOUBLE 1-D33A,34A ED-301911 D SILICON II DS448 1-D35A ED-348205 D SILICON V MC931 DOUBLE 1-D36Ato38A ED-344280 II SILICON H GMA-01-FY2 F05 1-TC7A EC-337603 C S-FIX II CTZ51F132 5.5-30 (L)				1-FL10A	ER-337327	
1-D24A,25A ED-301911 D SILICON II DS448 1-D27A ED-330218 A II ZENER H HZ15L 2 1-D28Ato30A ED-337575 D SILICON H CMA-01-4-BT T26 1-D31A,32A ED-337605 D VARACTOR SVC333 (A) DOUBLE 1-D33A,34A ED-301911 D SILICON II DS448 1-D35A ED-348205 D SILICON V MC931 DOUBLE 1-D36Ato38A ED-344280 II SILICON H GMA-01-FY2 F05 1-TC7A EC-337603 C S-FIX II CTZ51F132 5.5-30 (L)						
1-D27A ED-330218	-			1-FL10AC	ER-337328	
1-D28Ato30A ED-337575 D SILICON H CMA-01-4-BT T26 1-D31A,32A ED-337605 D VARACTOR SVC333 (A) DOUBLE 1-D33A,34A ED-301911 D SILICON II DS448 1-D35A ED-348205 D SILICON V MC931 DOUBLE 1-D36Ato38A ED-344280 II SILICON H GMA-01-FY2 F05 1-TC7A EC-337603 C S-FIX II CTZ51F132 5.5-30 (L)						· ·
1-D31A,32A ED-337605 D VARACTOR SVC333 (A) DOUBLE 1-D33A,34A ED-301911 D SILICON II DS448 1-D35A ED-348205 D SILICON V MC931 DOUBLE 1-D36Ato38A ED-344280 II SILICON H GMA-01-FY2 F05 1-TC7A EC-337603 C S-FIX II CTZ51F132 5.5-30 (L)				1-X1A	EI-327074	
DOUBLE 1-X2A EO-330256 OSC CE F85-006 4MHZ 1-D33A,34A ED-301911 D SILICON II DS448 1-SC1A EC-346822 COMP C B72C0716-32N 1-D35A ED-348205 D SILICON V MC931 DOUBLE 1-TC1Ato6A EC-336865 C S-FIX II CTZ51C 3.0-10 1-D36Ato38A ED-344280 II SILICON H GMA-01-FY2 F05 1-TC7A EC-337603 C S-FIX II CTZ51F132 5.5-30 (L)						The state of the s
1-D35A ED-348205 D SILICON V MC931 DOUBLE 1-TC1Ato6A EC-336865 C S-FIX II CTZ51C 3.0-10 1-D36Ato38A ED-344280 U SILICON H GMA-01-FY2 F05 1-TC7A EC-337603 C S-FIX II CTZ51F132 5.5-30 (L)						
1-D36Ato38A ED-344280 II SILICON H GMA-01-FY2 F05 1-TC7A EC-337603 C S-FIX II CTZ51F132 5.5-30(L)						
			1			
(L)	1-D36Ato38A I	ED-344280		1-1C7A	EC-337603	C 5-Fix ii C1Z51F132 5.5-30(L)
			(L)			

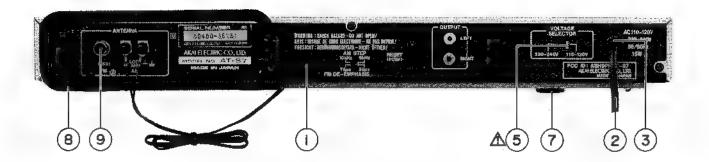
REF. NO.	PARTS NO.	DESCRIPTION
1-R6A	ER-322591	A R CB H S10 FS RDS 1/4W
1-R21A	ER-322591	101J ▲ R CB H S10 FS RDS 1/4W
1-R25A	ER-324184	101J ▲ R CB H S10 FS RDS 1/4W
1-R29A	ER-322591	△ R CB H S10 FS RDS 1/4W
1-R36A	ER-200939	△ R CB H S10 FS RDS 1/4W 181J
1-R44A	ER-324184	△ R CB H S10 FS RDS 1/4W 121J
1-R47A	ER-322591	▲ R CB H S10 FS RDS 1/4W
1-R55A	ER-324184	△ R CB H S10 FS RDS 1/4W 121J
1-R61A	ER-324184	△ R CB H S10 FS RDS 1/4W 121J
1-R78A	ER-324184	▲ R CB H S10 FS RDS 1/4W 121J
1-R79A	ER-322591	Δ R CB H S10 FS RDS 1/4W 101J
1-R95A	ER-324184	Δ R CB H S10 FS RDS 1/4W
1-R141A	ER-324186	▲ R CB H S10 FS RDS 1/4W 681J
1-R163A	ER-324185	△ R CB H S10 FS RDS 1/4W 221J
1-R177A	ER-324184	△ R CB H S10 FS RDS 1/4W 121J
1-R184A	ER-324184	△ R CB H S10 FS RDS 1/4W 121J
1-R263A	ER-200940	▲ R CB H S10 FS RDS 1/4W 561J
1-R270A	ER-324186	▲ R CB H S10 F8 RDS 1/4W 681J
1-FR1A,2A	ER-318248	▲ R FUSE ERD2FC S10 1/4W 470R0G
1-FR3A	ER-319455	A R FUSE ERD2FC S10 1/4W 10R0G
1-FR4A	ER-318248	A R FUSE ERD2FC S10 1/4W 47R0G
1-C89A 1-C94A	EC-300193 EC-330310	C EC V F05 NP SM 100M 16DC C STY V F05 CQ09S 561J 50DC (U)
1-C95A	EC-334075	C STY V F05 CQ09S 122J 50DC (EXCEPT C)
1-C95AC	EC-334078	C STY V F05 CQ09S 182J 50DC (C)
1-C97A	EC-330310	C STY V F05 CQ098 561J 50DC (U)
1-C98A	EC-334075	C STY V F05 CQ09S 122J 50DC (EXCEPT C)
1-C98AC	EC-334078	C STY V F05 CQ098 1821 50DC (C)
1-C101A 1-C123A	EC-327097 EC-334065	C STY V F05 CQ09S 102J 50DC C STY V F05 CQ09S 161J 50DC
1-C168A	EC-344157	(L) C DOUBLE LAYER 473Z 5.5DC
1-C195A,196A 1-TM1A	EC-320548 EJ-344423	C CE V F 103Z 250AC TERMINAL W/SCREW
		YKD31-0133 P 2P
1-SW1Bto5B	FUNCTION P ES-336780	CC BOARD SW TACT KHH10902
	FLD P.C BOA	
1-IND1C	EM-347125	IND FL FIP8AM11 CHARACTER
1-SW1Cto12C		SW TACT KHH10902
1-D1Cto10C	ED-337391	D LED GL5NG6 GRN
1-F1U	EF-309389	▲ FUSE TSC A 250V 0.40A (U)
1-F1C	EF-306088	▲ FUSE TSC 125V 0.31A (C,A)
1-F1E	EF-336834	▲ FUSE FST3100 T 250V
1-F2C	EF-308847	0.16A (E,V,B,S) ▲ FUSE TSC 125V 1.60A (C,A)

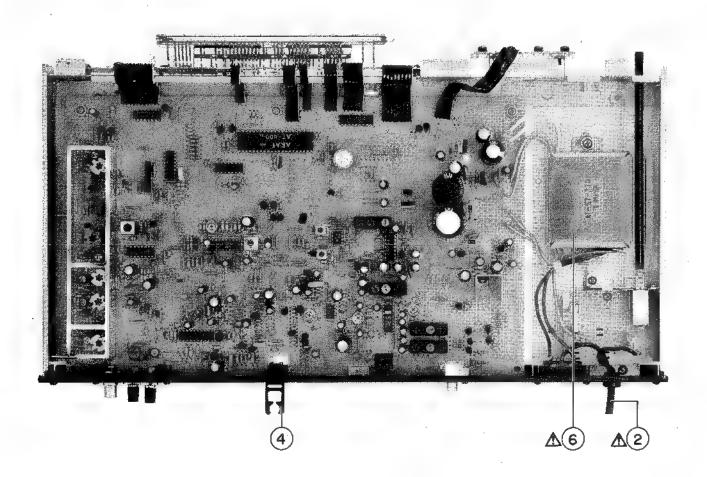
REF. NO.	PARTS NO:	DESCRIPTION
1-F2E	EF-301485	▲ FUSE FST3100 T 250V 1.60A (E,V,B,S)
1-F3	EF-300596	▲ FUSE FST3100 T 250V 0.20A (L-B)

2. POWER SUPPLY P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
2-SW1	ES-337902	A SW PUSH SDLD1P 01-1 (V)
2-L1	EO-338409	COIL LF FKOB160MH02
		250μH (V)
2-R1	ER-672816	A R CB H RD 1/2W 225J (C,A)
2-C1U	EC-320548	A C CE V ■ 103Z 250AC
		(U,C,A)
2-C1E	EC-338496	Δ C CE V FZ 472P 400AC
		(E,V,S,B)

ASSEMBLY BLOCK

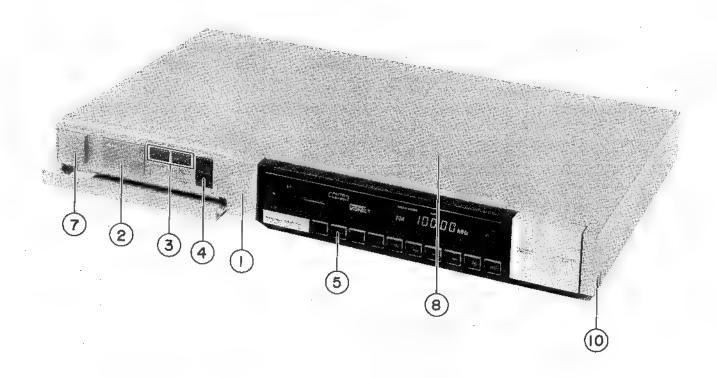




3. ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION	REF. No.	PARTS NO.	DESCRIPTION
3-1 U	SP-344780A	PANEL REAR AT-S7 (U)	3-2E	EW-336923	▲ AC CORD 2 CORES KP-419C,
3-1C	SP-344780B	PANEL REAR AT-S7 (C,A)			LTCE-2 F EV (E,V)
3-1E	SP-344780D	PANEL REAR AT-S7 (E,V)	3-2S	EW-336924	△ AC CORD 2 CORES KP-560,
3-1\$	SP-344780E	PANEL REAR AT-S7 (S)			LTSA-2FS (S)
3-1 LE	SP-344780G	PANEL REAR AT-S7L (E)	3-2B	EW-347025	▲ AC CORAD 2 CORES LTBS-2F
3-1B	SP-344780H	PANEL REAR AT-S7L (B)			B (B)
3-2 U	EW-306428	A AC CORD 2 CORES KP-700A,	3-3	EZ-631945	STRAIN RELIEF SR-4N-4
		, VFF U/T (U)	3-4	SZ-332739	HOLDER ANTENNA
3-2C	EW-305691	AC CORD 2 CORES KP-8,	3-5	ES-348463	△ SW SLIDE 00120297 01-2
		SPT-1 LIC (C.A)			

FINAL ASSEMBLY BLOCK



4. FINAL ASSEMBLY BLOCK

		•
REF.	PARTS NO.	DESCRIPTION
	FRONT PANEL	L BLOCK
4-1	BD-A3036A040A	PANEL FRONT BLK AT-S7
4-1P	BD-A3036A040B	PANEL FRONT BLK AT-S7-P
4-1L		PANEL FRONT BLK AT-S7L
4-1 L.P	BD-A3036A040D	PANEL FRONT BLK AT-S7L-P
4-2	SK-344787A	KNOB BAND
4-2P	SK-344787B	KNOB BAND-P
	SK-344789A	
4-3P	SK-344789B	KNOB PUSH (C)-P
4-4	SK-344791A	KNOB MEMO
4-4P	SK-344791B	KNOB MEMO-P
4-5	SK-B344785	KNOB STATION PART
4-6X	ZG-322189	SP (B)
4-7	SK-342820A	KNOB POWER
4-7P	SK-342820C	KNOB POWER-P (2)
	FINAL ASSEM	RI V RI OCK
4-8		COVER UPPER (A)
		COVER UPPER (A)-P
		T2BR30×06STL BZN PROJECTION
	AX-344816	IND PLATE
4-11X		
4-12XA		
4-12XB	AX-344815B	IND PLATE FILM B (U,S)
4-12XC	AX-344815C	IND PLATE FILM C (U,S)
	AX-344815E	IND PLATE FILM E (A,C,U)
4-12XF	AX-344815F	IND PATE F (E,B,V)
4-12XG	AX-344815G	IND PLATE FILM G (E,B,V)
4-12XD	AX-344815D	IND PLATE FILM D (A,C)

SYMBOL FOR COLOR VARIATION

NONE - SILVER

P – PEARL SHADOW

INDEX

PARTS NO.	REF. NO.	PARTS NO.	REF. NO.	PARTS NO.	REF. NO.	PARTS NO.	REF. NO.
AX-344786	4-11X	ED-337391	1-D4C	EO-337608	1-L1A	ET-316643	1-TR47A
AX-344815A	4-12XA	ED-337391	1-D10C	EO-337408	2-L1		
AX-344815B	4-12XB	ED-337391	1-D10C	EO-343807	1-L3A	ET-316643	1-TR45A
AX-344815C	4-12XC	ED-337391 ED-337391	1-D9C			ET-316643	1-TR44A
				EO-347098	1-T1A	ET-316643	1-TR9A
AX-344815D	4-12XD	ED-337391	1-D7C	EQ0347099	1-T2A	ET-322778	1-TR55A
AX-344815E	4-12 XE	ED-337391	1-D5C	EO-347100	1-T3A	ET-322778	1-TR29A
AX-344815F	4-12XF	ED-337575	1-D12A	EQ-347102	1-T5A	ET-322778	1-TR13A
AX-344815G	4-12XG	ED-337575	1-D17A	EO-347103	1-T7A	ET-322778	1-TR53A
AX-344816	4-10	ED-337575	1-D16A	EO-347104	1-T9A	ET-322778	1-TR41A
BA-A3036A020A	1-1U	ED-337575	1-D28A	EO-347105	1-T14A	ET-322778	1-TR38A
BA-A3036A020B	1-1C	ED-337575	1-D6A	EO-348212	1-T6A	ET-322778	1-TR15A
BA-A3036A020C		ED-337575	1-D7A	EQ-348213	1-T8A	ET-322778	1-TR14A
BA-A3036A020D		ED-337575	1-D9A	ER-200939			
BC-344778B	4-8P	ED-337575			1-R36A	ET-322778	1-TR43A
			1-D11A	ER-200940	1-R263A	ET-322778	1-TR26A
BD-A3036A040A		ED-337575	1-D13A	ER-318248	1-FR4A	ET-322778	1-TR30A
BD-A3036A040B		ED-337575	1-D14A	ER-318248	1-FR1A	ET-322778	1-TR23A
BD-A3036A040C	4-1L	ED-337575	1-D15A	ER-318248	1-FR2A	ET-322778	1-TR18A
BD-A3036A040D	4-1 LP	ED-337575	1-D30A	ER-319455	1-FR3A	ET-322778	1-TR51A
BT-347008	3-6C	ED-337575	1-D29A	ER-322591	1-R79A	ET-322778	1-TR31A
BT-347009	3-6E	ED-337575	1-D39A	ER-322591	1-R21A	ET-322778	1-TR56A
BT-347010	3-6S	ED-337575	1-D41A				
BT-347011	3-6U	ED-337575 ED-337575	1-D41A 1-D52A	ER-322591 ER-322591	1-R47A 1-R29A	ET-322778 ET-322778	1-TR54A 1-TR52A
EC-300193	1-C89A	ED-337575	1-D8A	ER-322591	1-R6A	ET-323232	1-TR35A
EC-320548	1-C195A	ED-337575	1-D53A	ER-324184			
EC-320548	1-C196A				1-R55A	ET-323232	1-TR8A
		ED-337575	1-D51A	ER-324184	1-R78A	ET-323232	1-TR5A
EC-320548	2-C1U	ED-337605	1-D32A	ER-324184	1-R61A	ET-323232	1-TR34A
EC-327097	1-C101A	ED-337605	1-D31A	ER-324184	1-R184A	ET-336864	1-TR48A
EC-330310	1-C97A	ED-344280	1-D18A	ER-324184	1-R177A	ET-336864	1-TR46A
EC-330310	1-C94A	ED-344280	1-D38A	ER-324184	1-R44A	ET-337743	1-TRIA
EC-334065	1-C123A	ED-344280	1-D36A	ER-324184	1-R95A	ET-337744	1-TR2A
EC-334075	1-C95A	ED-344280	1-D37A	ER-324184	1-R25A	ET-337759	1-TR16A
EC-334075	1-C98A	ED-346503	1-D56A	ER-324185	1-R163A	ET-337759	1-TR20A
EC-334078	1-C95AC	ED-348205	1-D35A	ER-324186	1-R141A		
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EC-336865				ER-324186	1-R270A	ET-337759	1-TR17A
	1-TC3A	EE-337976	3-8	ER-336830	1-FL5A	ET-337759	1-TR21A
EC-336865	1-TC2A	EF-300596	1-F3	ER-337327	1-FL10A	ET-618873	1-TR4A
EC-336865	1-TC1A	EF-301485	1-F2E	ER-337328	1-FL10AC	ET-618873	1-TR3A
EC-336865	1-TC5A	EF-306088	1-F1C	ER-337989	1-FL3A	EV-337861	1-VR4A
EC-336865	1-TC6A	EF-308847	1-F2C	ER-337989	1-FL2A	EV-337995	1-VR1A
EC-336865	1-TC4A	EF-309389	1-F1U	ER-345729	1-FL1AL	EV-337995	1-VR2A
EC-337603	1-TC7A	EF-336834	1-F1E	ER-347107	1-FL4A	EV-345785	1-VR3A
EC-338496	2-C1E	EH-347106	1-FL1A	ER-672816	2-R1	EW-305691	3-2C
EC-344157	1-C168A	EH-347109	1-FL8A	ES-336780	1-SW1C	EW-306428	3-2U
EC-346822	1-SC1A	EH-347110	1-FL8AC	ES-336780	1-SW12C		
EC-347112	1-FL9AC	EH-347111	1-FL9A	ES-336780		EW-336923	3-2E
					1-SW3C	EW-336924	3-25
ED-200469	1-D20A	EH-347889	1-FL7A	ES-336780	1-SW8C	EW-347025	3-2B
ED-200469	1-D42A	EH-347889	1-FL6A	ES-336780	1-SW4C	EZ-631945	3-3
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ED-200469	1-D54A	EI-327074	1-X1A	ES-336780	1-SW9C	SK-342820C	4-7P
ED-200469	1-D55A	EI-328798	1-IC16A	ES-336780	1-SW4B	SK-344787A	4-2
ED-301911	1-D25A	EI-336717	1-IC10A	ES-336780	1-SW1B	SK-344787B	4-2P
ED-301911	1-D21A	EI-337013	1-IC13A				
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		EI-337417		ES-336780	1-SW10C	SK-344789B	4-3P
ED-301911	1-D24A	EI-338171	1-IC14A	ES-336780	1-SW5B	SK-344791A	4-4
ED-301911	1-D33A	EI-338675	1-IC15A	ES-336780	1-SW3B	SK-344791B	4-4P
ED-301911	1-D34A	EI-346964	1-IC12A	ES-336780	1-SW2B	SP-344778A	4-8
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ED-301911	1-D40A	EI-347116	1-IC4A	ES-344445	1-SW2 A	SP-344780D	3,117
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ED-301911		EI-347117	1-IC5A	ES-347122	1-SW1A	SP-344780E	3-1S
	1-D57A	EI-347118	1-IC6A	ES-348463	3-5	SP-344780G	3-1 LE
ED-301911	1-D46A	EI-347119	1-IC7A	ET-307193	1-TR59A	SP-344780H	3-1B
ED-301911	1-D59A	EI-347120	1-IC11A	ET-316643	1-TR12A	SZ-332739	3-4
ED-323216	1-D62A	EJ-315331	3-9	ET-316643	1-TR40A	ZG-322189	4-6X
	1-D10A	EJ-337424	1-J1A	ET-316643	1-TR19A	ZS-319460	4-9X
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ED-336832 ED-336832 ED-336832 ED-336832 ED-337391 ED-337391	1-D4A 1-D8C 1-D1C	EO-336934 EO-337598	1-L6A 1-T10A	ET-316643 ET-316643	1-TR25A 1-TR7A		
ED-336832 ED-336832 ED-336832 ED-336832 ED-337391 ED-337391 ED-337391	1-D4A 1-D8C	EO-336934	1-L6A	ET-316643	1-TR25A		

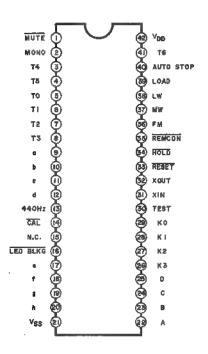
SECTION 3

SCHEMATIC DIAGRAM

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AT800, AT801

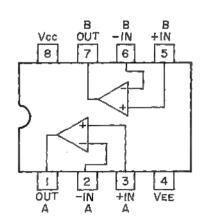


TERMINAL DESCRIPTION OF IC AT800, AT801

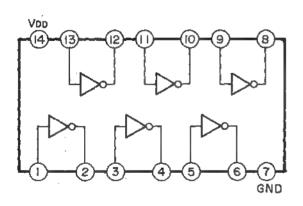
Pin No.	Name	Description	
1	MUTE	Muting output at "L"	
2	MONO	Mono output at "H"	
3	T4	.)	
4	T5]	
5	T0	ELD Digit & Var. Matrix Digit output	
6	T1	FLD Digit & Key Matrix Digit output	
7	T2		
8	T3] J [·]	
9	a		
10	Ъ	7 Samuent Priva	
11	С	7 Segment Drive	
12	ď		
13	440Hz	440Hz Pulse output	
14	CAL		
15	N.C.	Not used	
16	LED BLKG	CH No. LEDs Blanking signal output	
17			
18	f	7 Segment Drive	
19	g	J	
20	h	FLD Mode Segment Data output	
21	Vss	Connected to ground	
22 .	A		
23	В	PLL Data & CH No. LED output	
24	С	The bata & Cit No. Deb output	
25	D	J	

Pin No.	Name	Description	
26	К3)	
27	K2	Var Matein Data insurt	
28	K1	Key Matrix Data input	
29	K0		
30	TEST	Connected to ground	
31	X IN	Crystal OSC terminal	
32	X OUT	Crystal OSC terminal	
33	RESET	RESET at "L", when the power is turned on	
34	HOLD	Back-up Detection, Back-up at "L"	
35	REMCON	Remote Control Pulse input	
36	FM	FM Band output, FM at "H"	
37	MW	MW Band output, MW at "H"	
38	LW	LW Band output, LW at "H"	
39	LOAD	PLL Data Latch Signal output	
40	AUTO STOP	Auto Stop at "H"	
41	Т6	Key Matrix Digit output	
42	VDD	+5V	

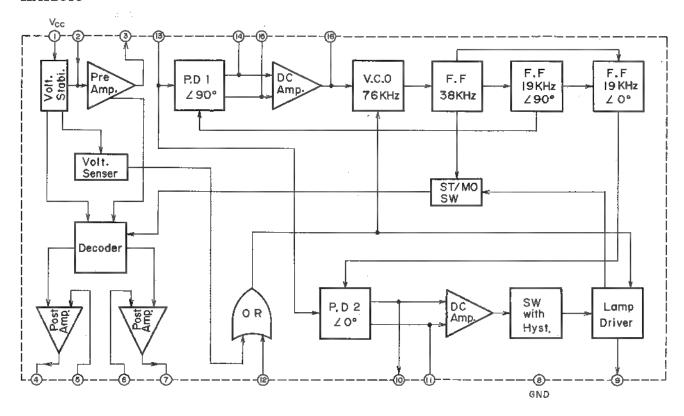
LA6358



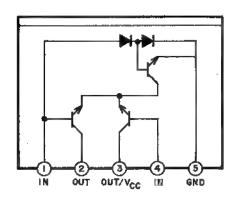
LC4069UB



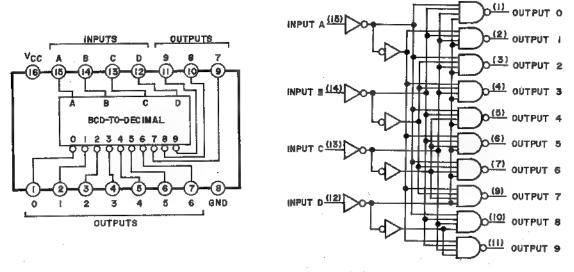
HA12016



M5215L



SN74LS145



TC9125BP

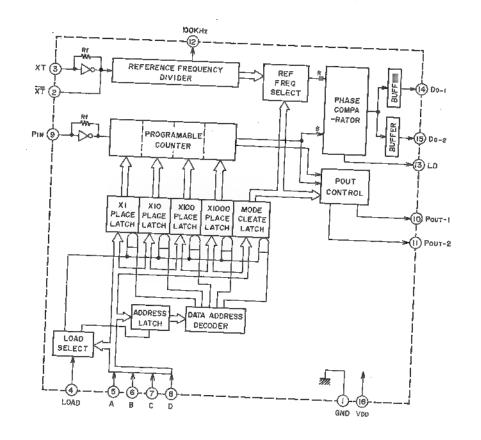
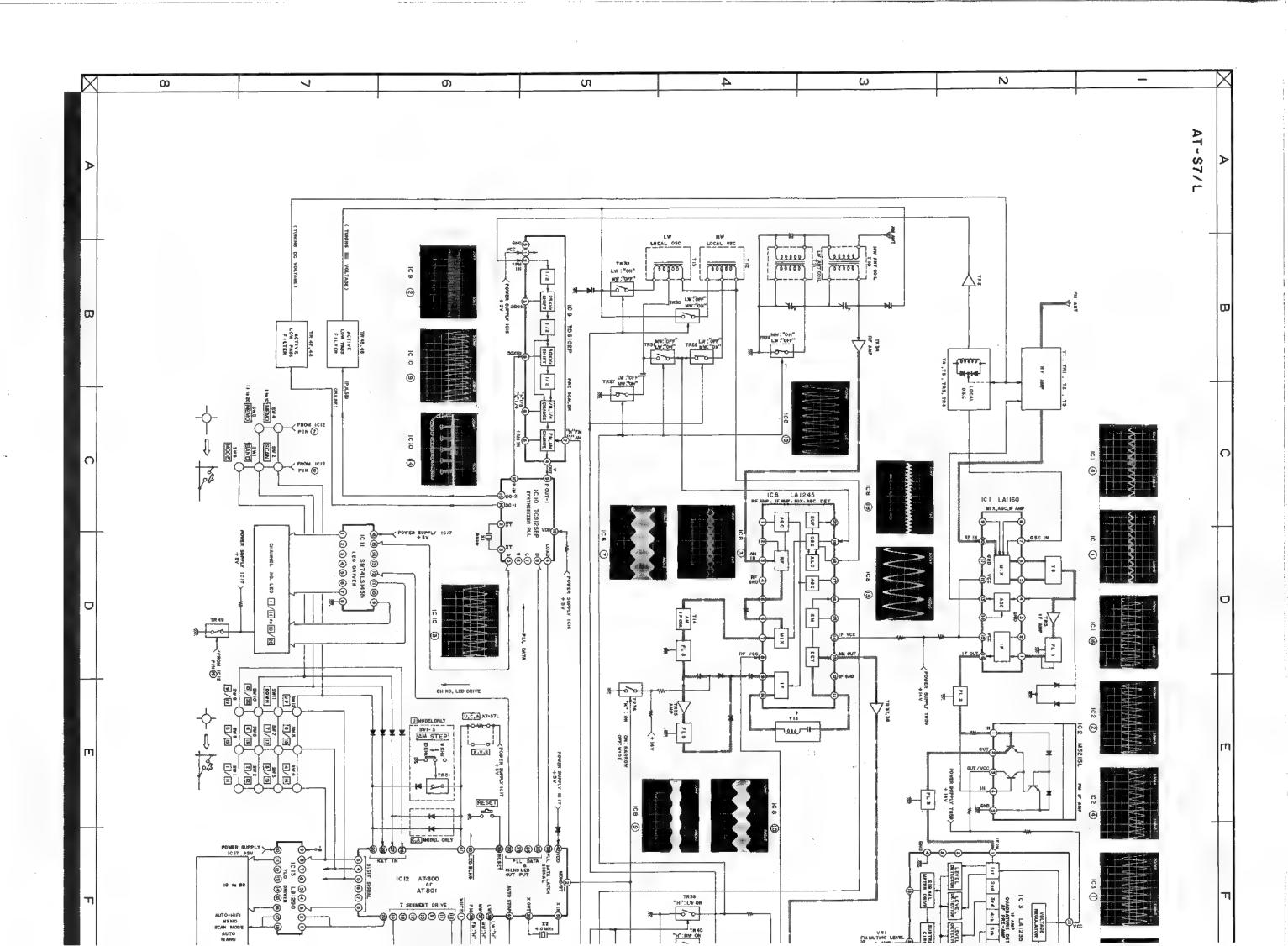
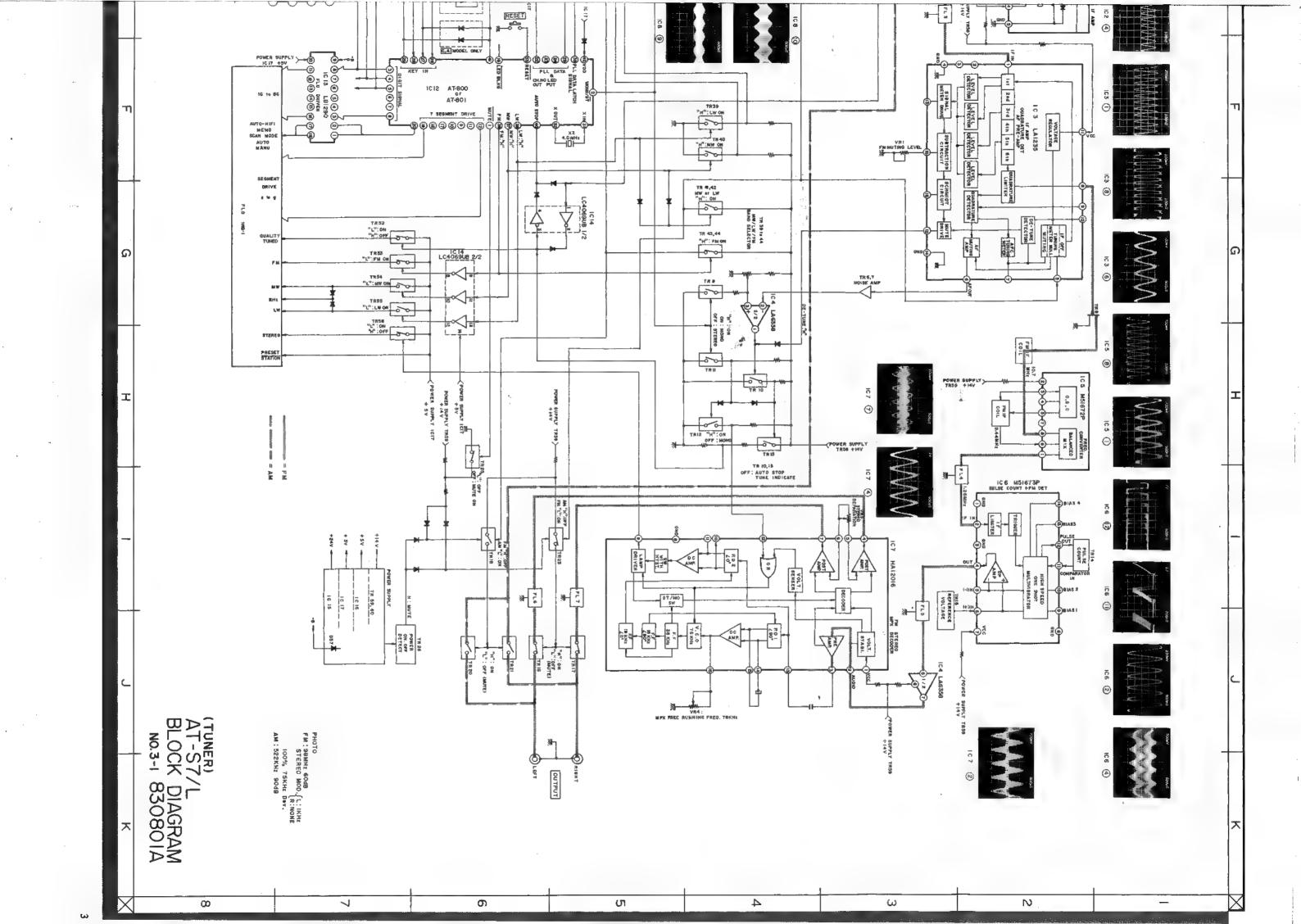


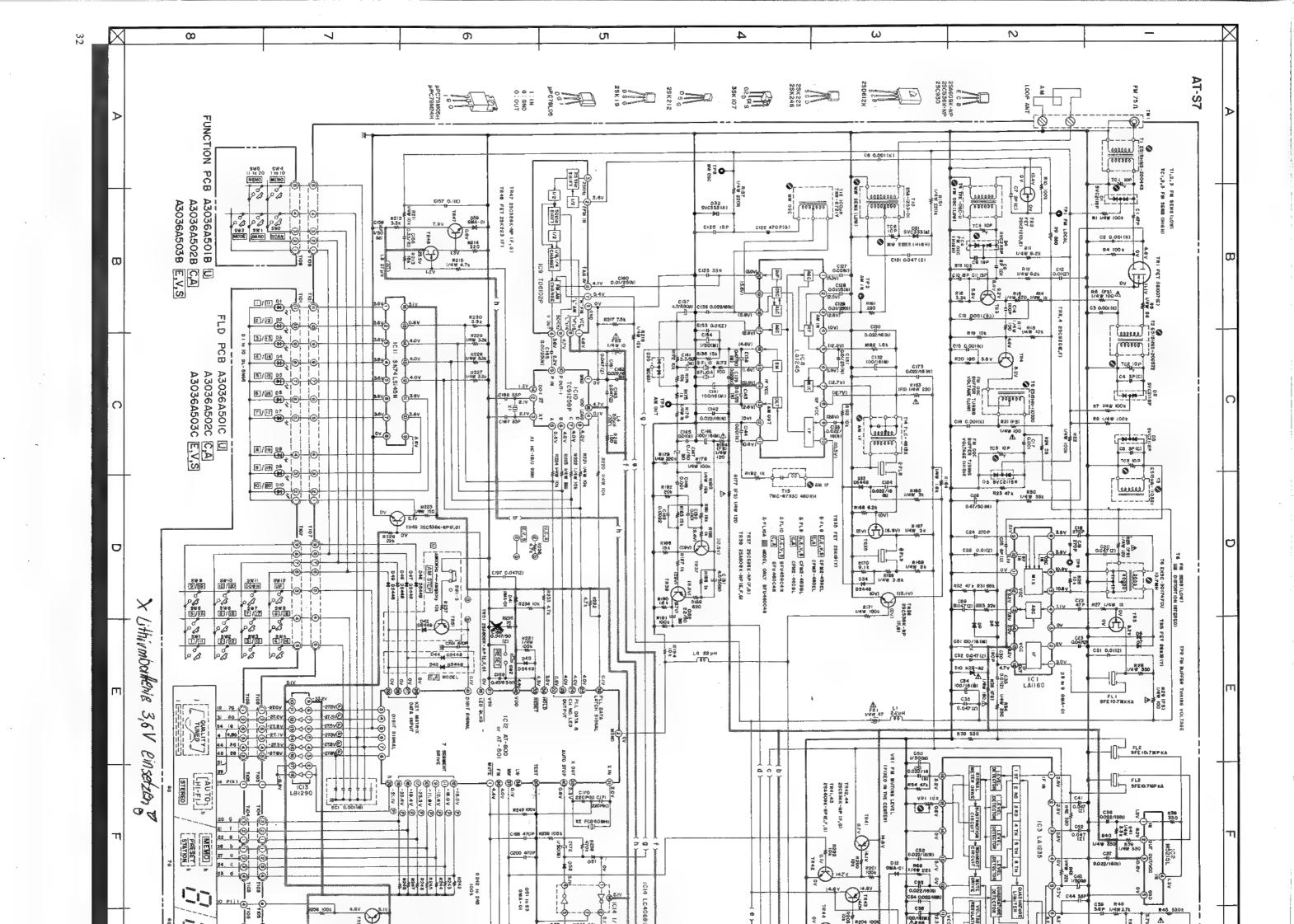
CHART FOR TC9125BP

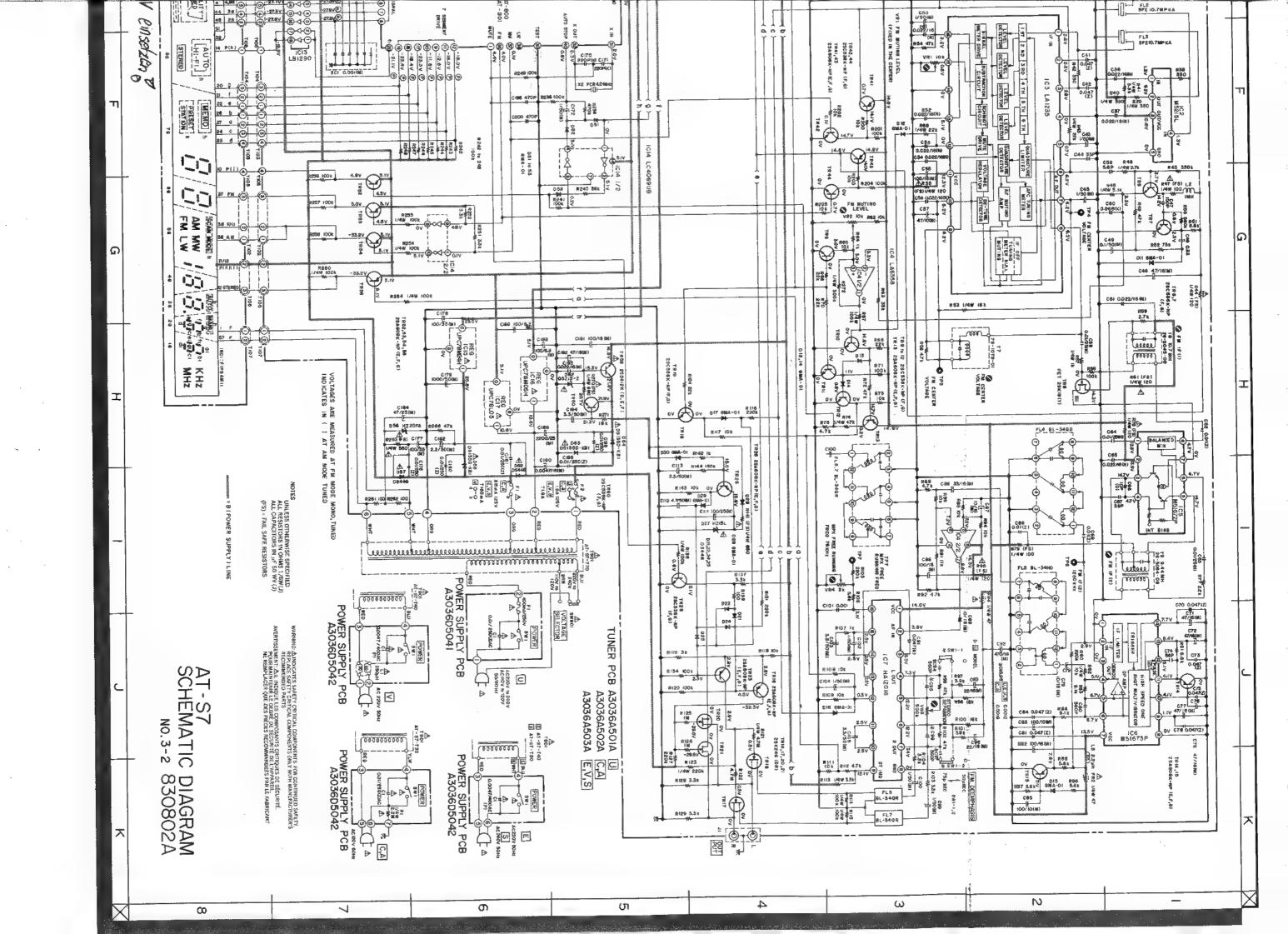
Pin No.	Symbol	Designation of terminal	Description of functions and operations
1	GND	Earth terminal	Table to the total and operations
2	XT	Crystal oscillator connection	
3	XT	terminal	Connection of 9.0 MHz crystal oscillator.
4	LOAD	Load input terminal	Data reading instruction input terminal for A, B, C and D. Data is read when this terminal is at "H" level, but when at "L" level, the previous data is held
_5	A		regardless of other inputs.
6	M	Program/data input	Input terminal for reference frequency selection data and programmable counter division digit data.
7	C	terminals	
8	D		
9	PIN	Programmable counter input terminal	
10	Pour-1	Processor	To be connected to the prescaler TD6102P for fine
11	POUT-2	Programmable counter output terminal	shift in Europe. The signal of Pout 1 and Pout 2
12	100 kHz	100 kHz clock output terminal	output at the point of different phase.
13	LD	Lock-out detection terminal	(CL13) loved - 1
14	Do-1	Phase comparator output	"H" level when lock-out occurs.
5	Do-2	terminal	To be connected to low-pass filter.
6	VDD	Power terminal	+5V

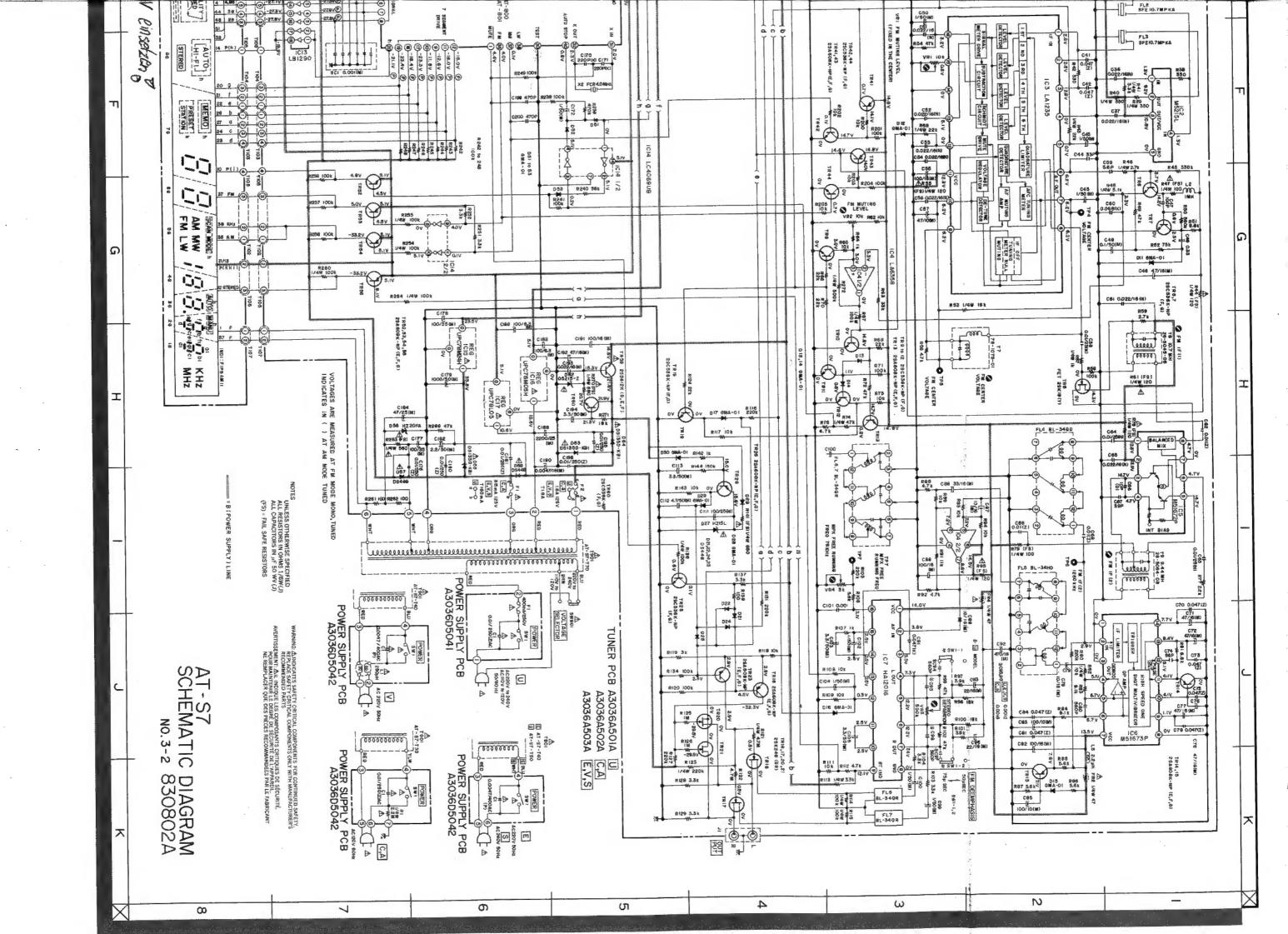
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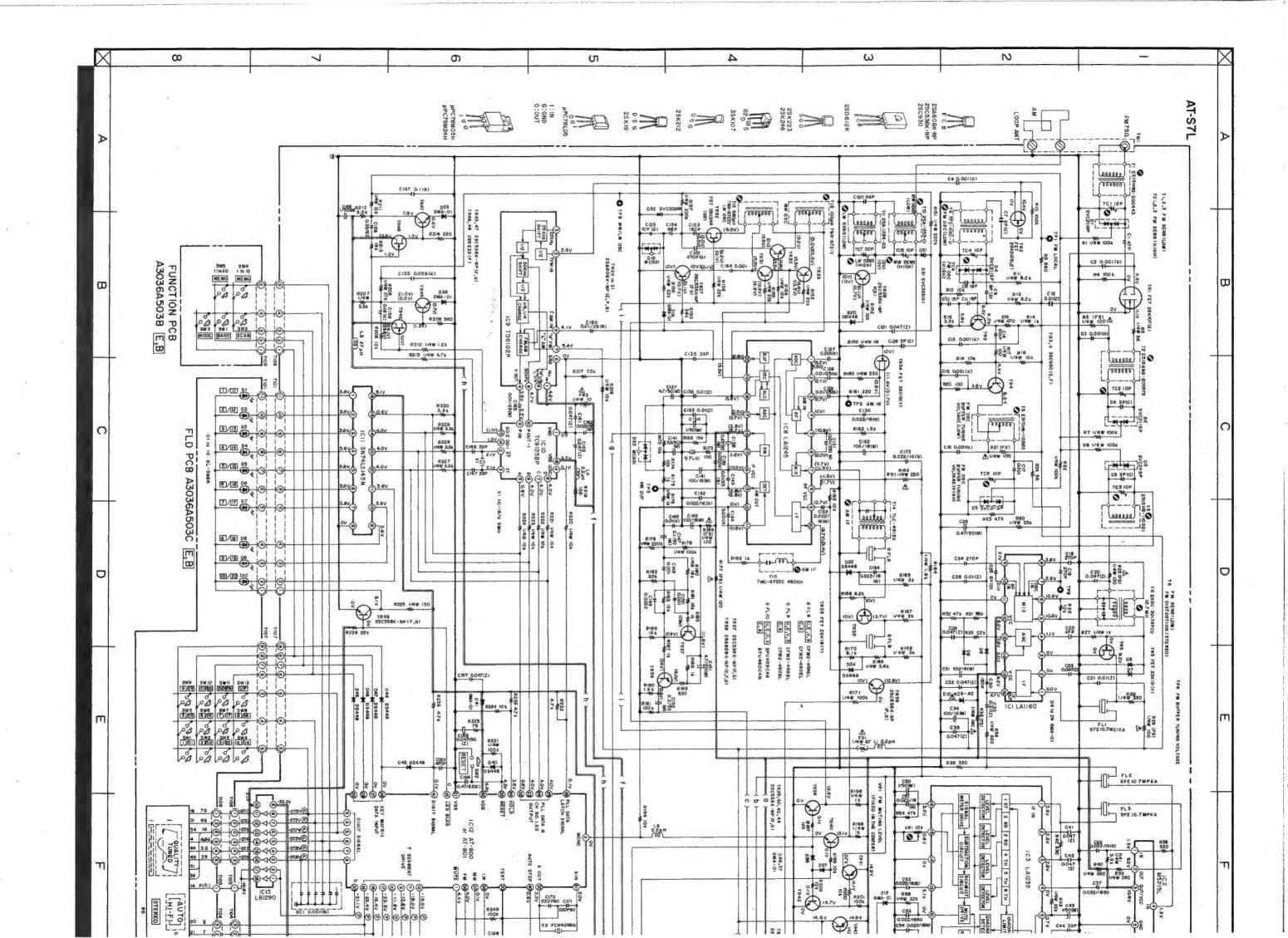


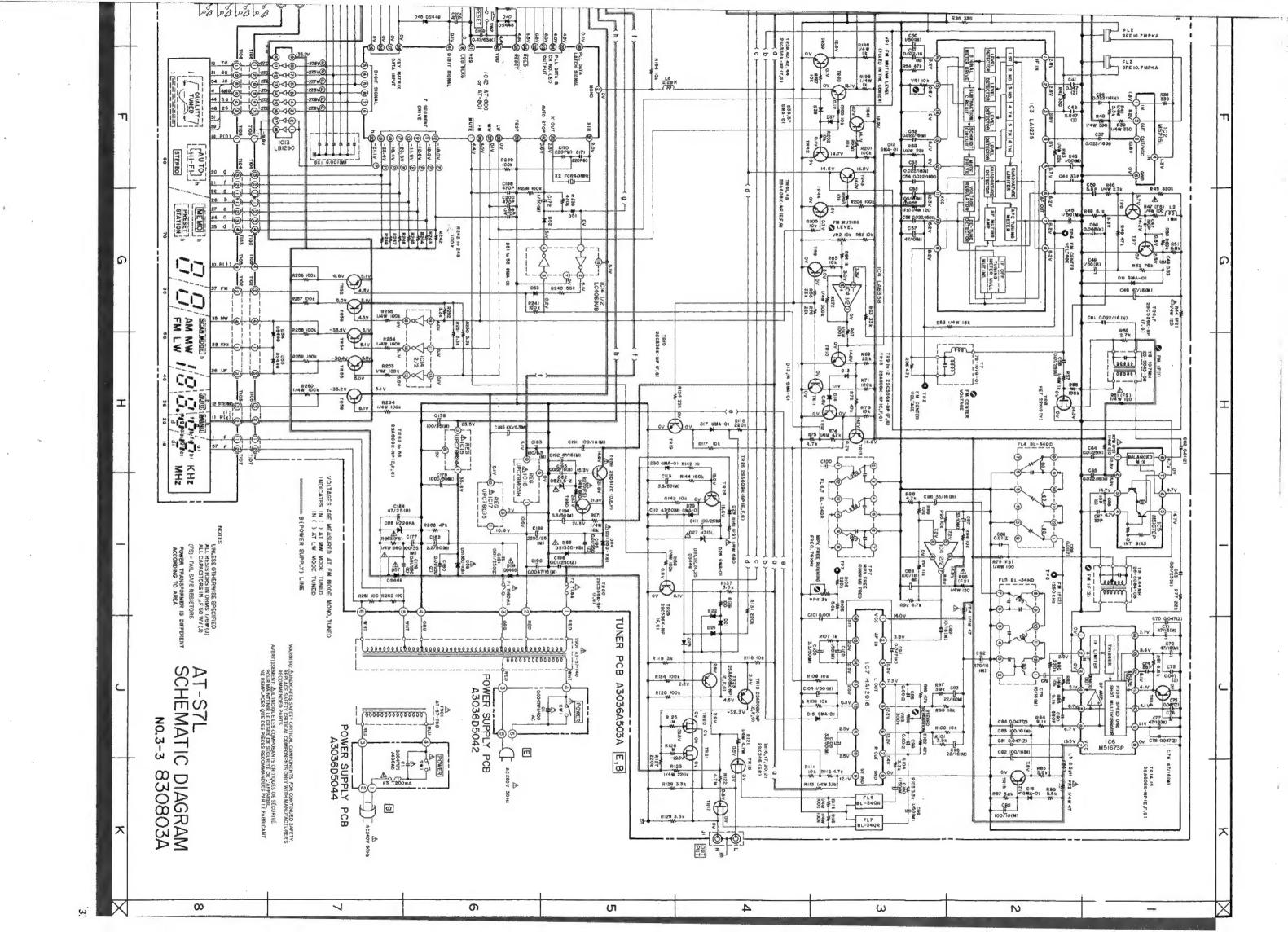














von: AKAI-Zentralkundendienst

an:

Datum: 04.09.86 wfs

Betr.:

Tuner AT-S 7

Problem:

In Einzelfällen fällt die Senderspeicherung nach

3 - 5 Tagen bei ausgeschaltetem Gerät aus.

Lösung:

Der für die Senderspeicherung zuständige Kundensator sollte in einem solchen Fall durch eine Lithium-Batterie ersetzt werden.

Sie kann bei uns mit der Bestell-Nr. EZ-354081 bezogen werden.

Wichtig:

Lithium-Batterien neigen bei zu starker Erhitzung (z.B. beim Löten) zur Explosion! Achten Sie daher beim Löten unbedingt darauf, in der unten angegebenen Weise vorzugehen.



Wärmeableitung

Wichtig:

Lithium-Batterien sind nicht aufladbar! Auf keinen Fall laden!

Hinweis:

Lebensdauer der Batterie: ca. 10 Jahre.

Beim Einsetzen der Batterie ist eine zusätzliche Germanium-Diode anstelle des Widerstandes R-235 einzulöten. Siehe dazu die nachfolgenden Schaltbild-Ausschnitte.

